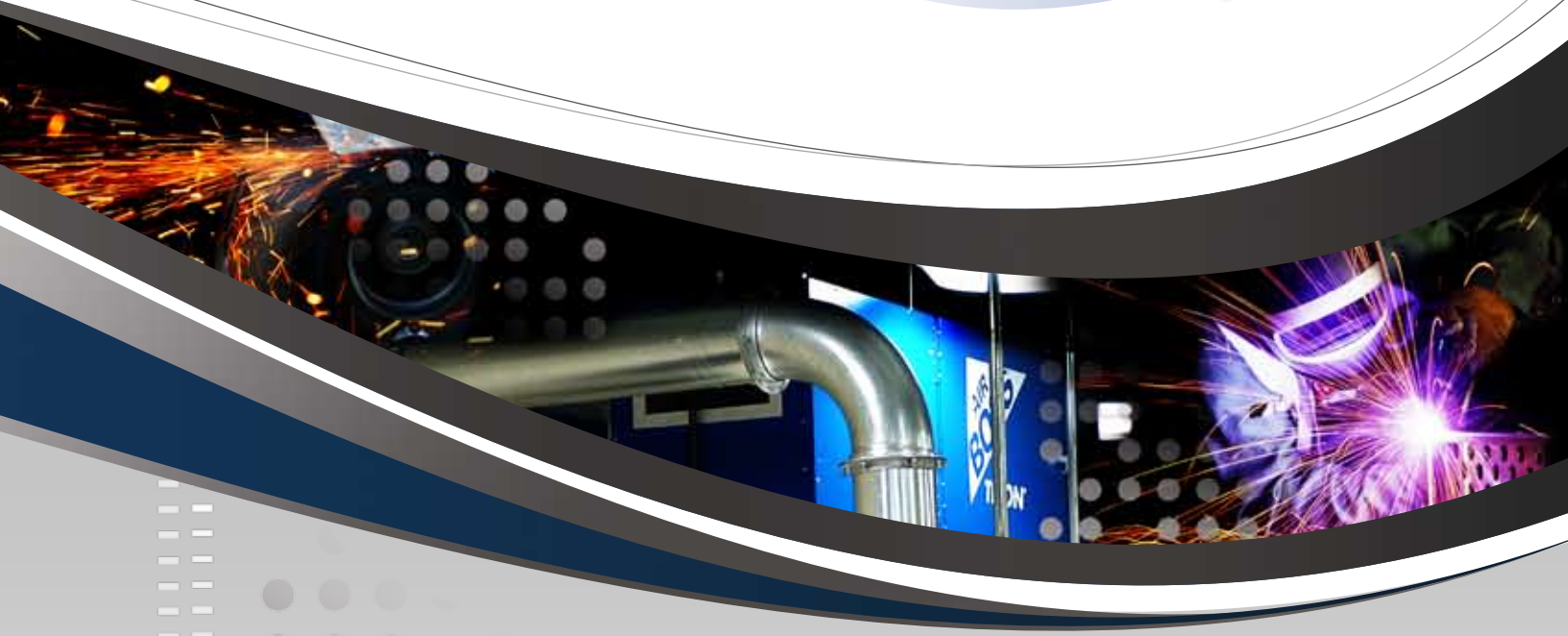


TRION

Air Purification Systems



Air Boss® M-Series

Media & Adsorption Air Cleaner

Engineered Solutions For Clean Air

Trion's Air Boss media units are industrial air cleaners designed for both general ventilation (removal of airborne pollutants from plant atmospheres) or source capture (ductwork or arms positioned at the origin of pollutants). These units help solve welding smoke, oil mist, rubber dust, diesel smoke, grinding dust, numerous gases/odors and many other indoor air pollution problems.

Features & Benefits

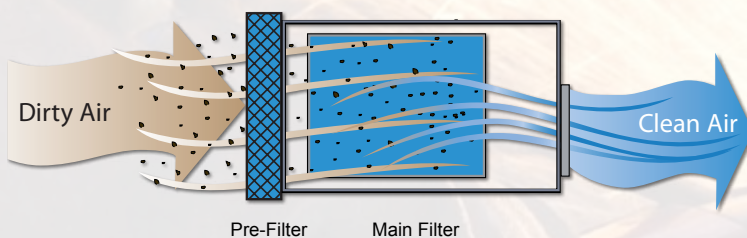
- Straight Through or Side Discharge — Ability to Better Control Airflow (M3000 & M6000)
- Odor and High Efficiency Filters — From HEPA and Adsorber Modules to Mini-Pleat Filters (194/388 Sq. Ft.) for Maximum Efficiency and Effectiveness (M3000 & M6000)
- Belt Driven Blower with Variable Pitch Sheave — Providing Adjustment for Precise CFM Operating Range (M3000 & M6000)
- Collects Wet or Dry Particulates — Providing Versatility in a Wide Range of Applications (M3000 & M6000)
- High Static Blower Packages — Capacity for Additional External Static Offers More Contaminant Pickup Points (Optional For M3000)

How it Works

Trion's Air Boss Media Series uses the Interception Filtration Principle. Dirty, polluted air is drawn through the pre-filter to remove larger dust particles. The second stage, micro-glass deep pocket media filter removes submicron particles from the air stream by interception. The small diameter fibers in the filter intercept and retain these small particles while the large surface area of the filter gives long life and low pressure drop. The blower is designed specifically to handle the filtration system at rated CFM over the useful life of the filter.



Media Air Cleaning Process



Air Boss® M2500, M3000 & M6000 Specifications

Specifications

	M2500	M3000	M6000
Dimensions	47" L x 23.9" W x 23.6" H	68" L x 25" W x 26.25" H	73.5" L x 49" W x 30" H
Installation	Suspended, Wall or Frame Mounted		
Weight	180 Lbs./Shipping 250 Lbs.	260 Lbs./Shipping 330 Lbs.	610 Lbs./700 Lbs.
Electrical: Standard	.75hp: 120vac/60/1ph 10.5 AMPS	2 HP: 208-240/480/60/3ph 5.8/2.9 AMPS	7.5 HP: 208-240/480/60/3ph 19.8/9.9 AMPS
Optional	N/A	2 HP: 575/60/3ph 3 HP: 208-240/480/60/3ph-9.1/4.6 AMPS 3 HP: 575/60/3ph	5hp: 208-230/460/60/3ph 13.4/6.7 AMPS 5 HP: 575/60/3ph 7.5 HP: 575/60/3ph
Motors: Standard	Thermally Protected	TEFC, Ball Bearings 1740 RPM (Standard); 3450 RPM (Optional)	TEFC, Ball Bearings 1740 RPM (Standard); 3450 RPM (Optional)
Blowers: Standard	Direct Drive, Forward Curved	Belt Drive, Forward Curved	Belt Drive, Forward Curved
Optional	N/A	Belt Drive, Backward Inclined, Airfoil, 3hp High Static	N/A
Air Volume (CFM)	1240-2010	1300-2250	2400-4500
Controls	3-Speed Selector Switch	Motor Starter (Optional)	Motor Starter (Optional)
Sound Rating	50-70 dBA @ 5 Ft.	74 dBA @ 5 Ft.	80 dBA @ 5 Ft.
Pre Filters:	4 Inch 35% Pleated (Standard) Polyester Pad (Optional) 3-Way Wrap Around (Optional)	4 Inch 35% Pleated (Standard) 2 Inch Aluminum Mesh (Optional) 2 Inch Impinger (Optional) 3 Way Wrap Around (Optional)	(2) 4" 35% Pleated (Standard) (2) 2" Aluminum Mesh (Optional) (2) 2" Impinger (Optional)
Primary	95% Bag Filter (Standard) 65% Bag Filter (Optional)	95% Bag Filter (Standard) 65-95% Extended Surface (Optional) 99.97% HEPA (Optional)* 2 Ea. Adsorber Modules (Optional)* (25 Lbs. Carbon Each)	(2) 95% Bag Filter (Standard) (2) 65-95% Extended Surface (Optional) (2) .99.97% HEPA (Optional)* (4) Adsorber Modules (Optional)* (25 Lbs. Carbon Each)
Secondary	N/A	95% Short Bag (Optional)*	(2) 95% Short Bag (Optional)*
Gauge Kit	Manometer Or Magnehelic To Indicate When Filters Need Changing		
Silencer (Optional)	N/A	Reduces Sound To 72.5 dBA.	Reduces Sound To 78 dBA.

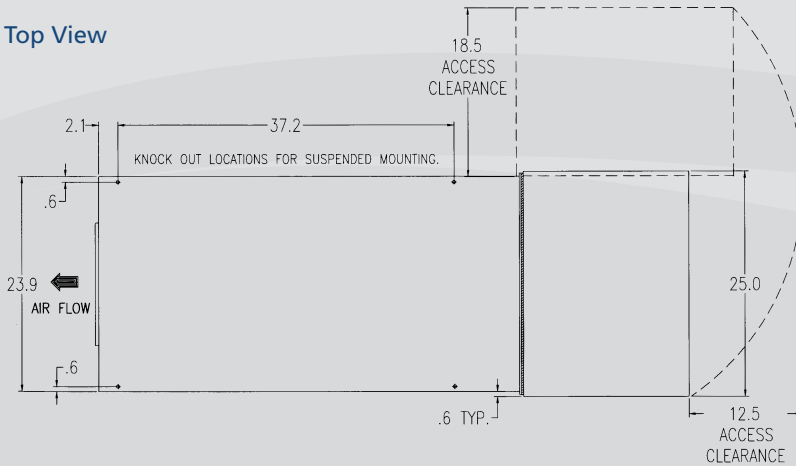
Specification for Each Unit

Cabinet	16 and 18 Gauge Galvanized Steel
Finish	Blue Epoxy Powder Coat
Air Flow	Horizontal — Right to Left or Left to Right, Optional Side Discharge (M3000 & M6000)
Filter Access	Hinged Doors — M3000 & M6000. End Loading — M2500.
Drain	Prefilter & Main Filter Drain (M2500 - No Drain)
Plenum	Source Capture with Inlet Collar (M3000 - 14" Dia. or M6000 - 20" Dia), with no Hole, Dual Arm (M3000 & M6000 Only)
Agency Approvals	UL Listed Components

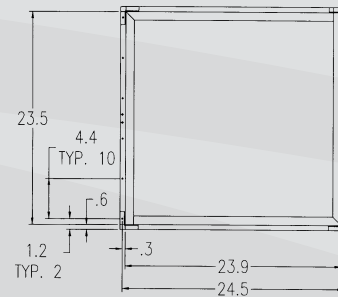
Media and Adsorption Air Cleaner

Dimensions M2500

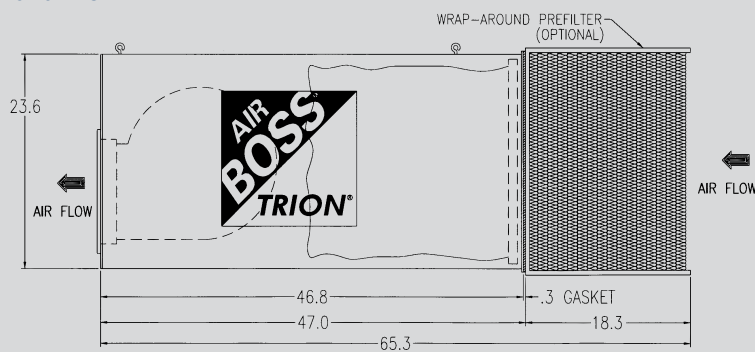
Top View



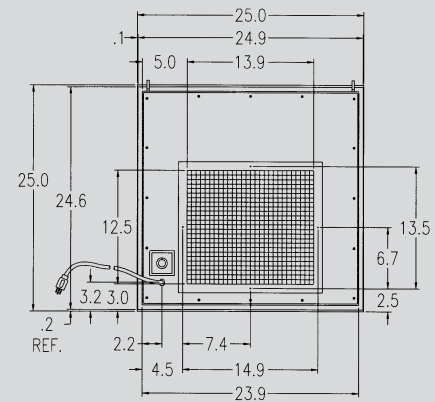
Intake End



Front View

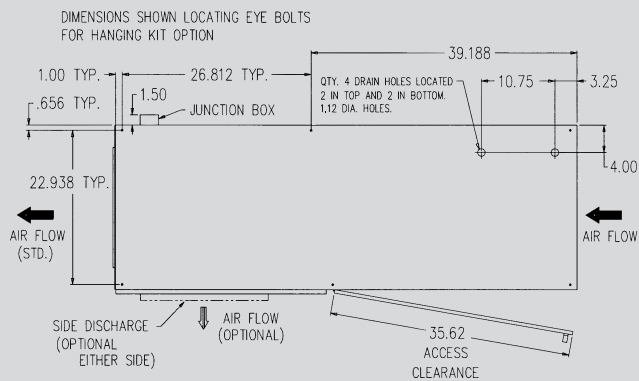


End Discharge

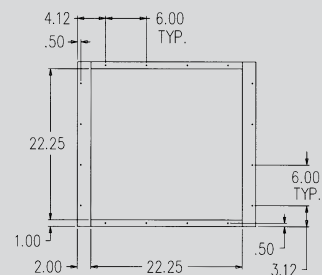


Dimensions M3000

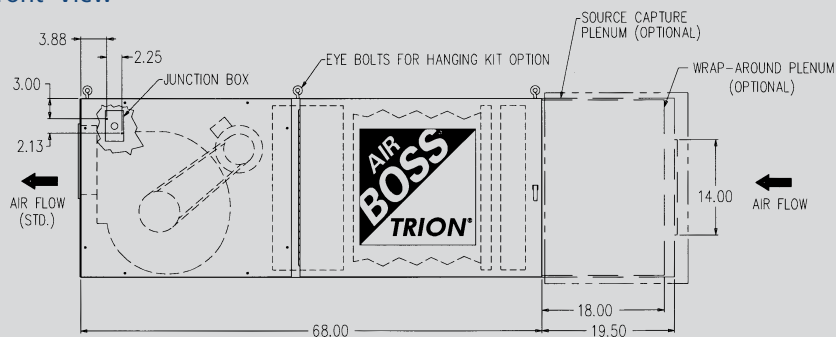
Top View



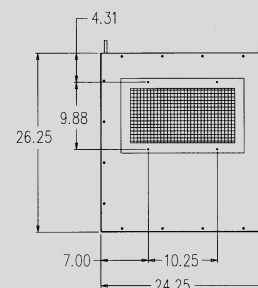
Intake End



Front View



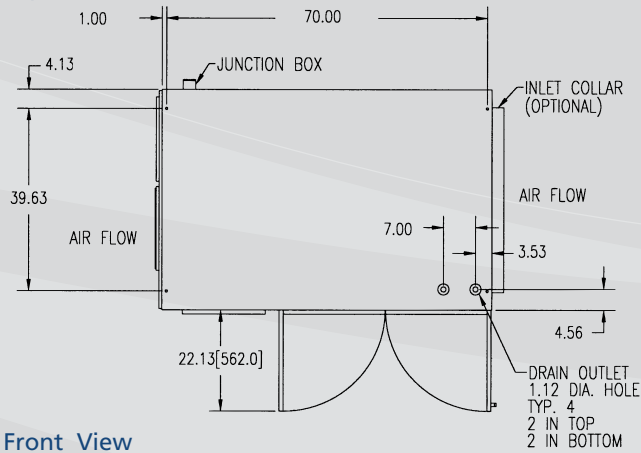
End Discharge



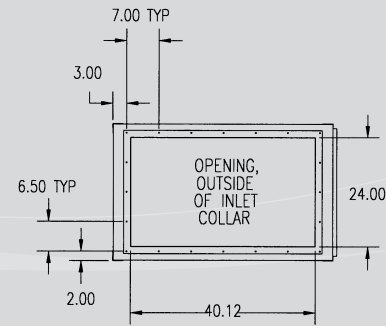
Media and Adsorption Air Cleaner

Dimensions M6000

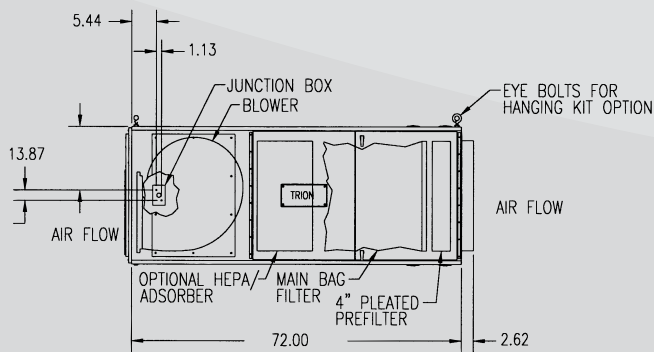
Top View



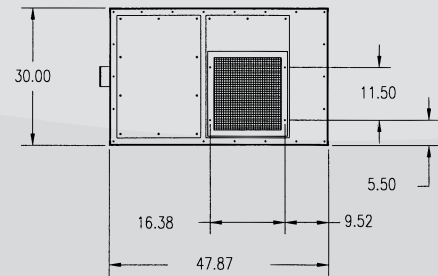
Intake End



Front View

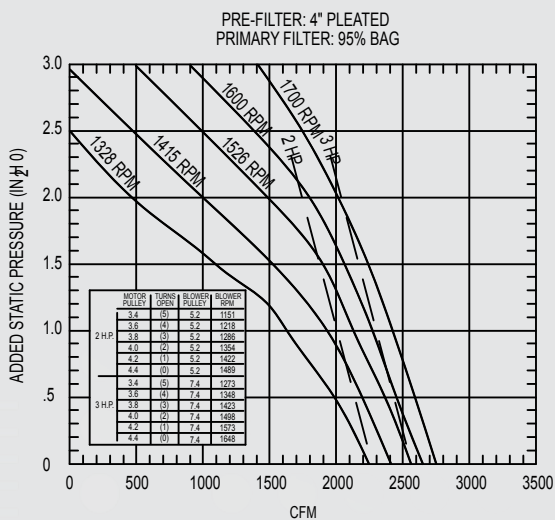


End Discharge



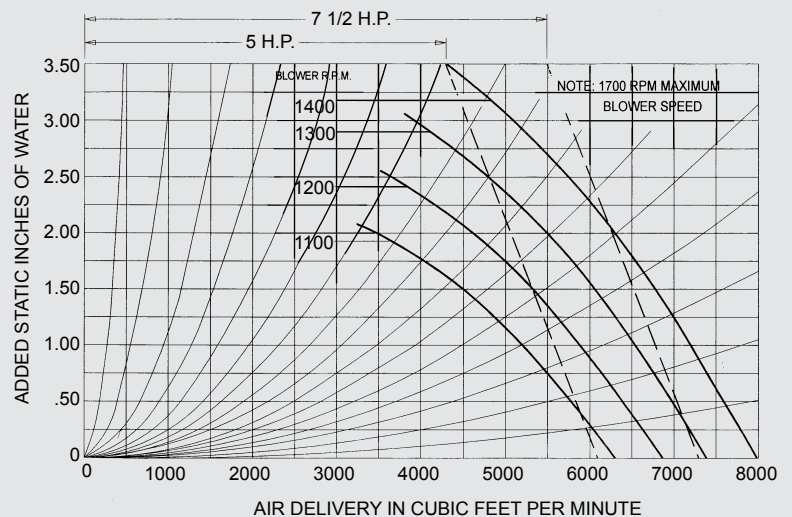
Air Delivery

M3000



M6000

4" PLEATED PREFILTER - MIN. 30% EFFICIENCY
36" LONG BAG FILTER - 65% EFFICIENCY



Industrial Applications Guide

Industrial Applications

Dusts

Atmospheric
General Ventilation
Tobacco
Rubber
Silica
Plastic/Epoxy
Fiberglass
Mica
Textile
Dried Automotive Body Putty
Talcum Powder
Paper
Spices
Toner
Wood (light loadings)
Fly Ash
Graphite

Smoke & Fumes

Burn Room Testing Exhaust
Metal Forming:
• Cold Heading
• Warm Fogging
Injection Molding
Rubber Curing
Drying Ovens
Heat Treating
Indoor Firing Range
Kitchen Exhaust
Plasma Cutting
Soldering
Tobacco
Torch Cutting
Welding
Yarn Setting

Process Finishings

Paint Room Make-Up Air
Plastic Molding
Photo Industry:
• Film Manufacturing
• Photo Finishing

Oil Mists

Metal Cutting/Removal
Die Release
Extruding
Lubrication:
• Gas Turbine Lub Vents
• Robotic Resistance Welders
• Compressor Vents
Carpet Backing Weaving
Texturizing Fluids

Manufacturing Process

Spruce Cutting Effluent
Scrap Metal Pre-heaters
Die Casting
Forming/Shaping
Forging

Plasticizing

Forming/Extruding
Curing
Sealing
Hot Wire Cutting

Industrial Particulate Loading Guide

A general guide to industrial particulate concentrations is as follows:

Light

Dirty city air, designated
smoking areas
(2.0-25 mg/m³)

Medium

Industrial process exhaust,
factory indoor air, commercial
kitchen exhaust
(25-100 mg/m³)

Heavy

Metal machining oil mists,
grinding dusts, heat treating
operations, heavy welding,
powders (100 mg/m³ and above)

Particulate considerations such as conductivity, tackiness, and operation cycles need to be taken into consideration when determining equipment selections.



Industrial Applications Guide

Industrial - Wet Particulate

Application Oil Mist/Smoke Coolants Oily Welding Fume	Central System Typical Heating & Air Conditioning Systems	Equipment			
		800-20,000	CFM	Medium	T-Series/Electrostatic
		2,000-25,000	CFM	Heavy	Model 75/Electrostatic
		8,250-Infinite	CFM	Heavy	Model 60/Electrostatic
	Source Capture Using Hoods, Arms, Portable Units	2,000-10,500	CFM	Heavy	ATS/Electrostatic
		Equipment			
		250-600	CFM	Medium	Mini M.E./Electrostatic
		300-800	CFM	Medium	VOMP600/Electrostatic
		600-850	CFM	Medium	MP600M/Media
		800-6,000	CFM	Medium	T-Series/Electrostatic
		1,300-4,500	CFM	Medium	M-Series/Media
	Ambient Capture Free Hanging with Established Air Patterns	2,000-10,500	CFM	Heavy	ATS/Electrostatic
		Equipment			
		800-6,000	CFM	Medium	T-Series/Electrostatic
		1,200-4,500	CFM	Medium	M-Series/Media
		2,000-25,000	CFM	Heavy	Model 75/Electrostatic
		2,000-10,500	CFM	Heavy	ATS/Electrostatic

Industrial - Dry Particulate

Application Process Dust Powders Grinding Fumes Welding Fumes Smokes	Central System Typical Heating & Air Conditioning Systems	Equipment				
		800-20,000	CFM	Medium	T-Series/Electrostatic	
		2,000-25,000	CFM	Heavy	Model 75/Electrostatic	
		8,250-Infinite	CFM	Heavy	Model 60/Electrostatic	
	Source Capture Using Hoods, Arms, Portable Units	2,000-10,500	CFM	Heavy	ATS/Electrostatic	
		Equipment				
		220	CFM	Light	* One Man Portable/Media	
		300-800	CFM	Medium	VOMP600/Electrostatic	
		600-850	CFM	Medium	MP600M/Media	
		900-1,100	CFM	Light	* M2500M/Media	
		900-1000	CFM	Medium	* Port-A-Cart/Cartridge	
	Ambient Capture Free Hanging with Established Air Patterns	800-6,000	CFM	Medium	T-Series/Electrostatic	
		1,200-4,500	CFM	Medium	M-Series/Media	
		2,000-25,000	CFM	Heavy	Model 75/Electrostatic	
		2,000-10,500	CFM	Heavy	ATS/Electrostatic	
Equipment						
800-6,000		CFM	Medium	T-Series/Electrostatic		
* Portable Unit						



Our Media Air Cleaners come with a three-year limited warranty.



DC Cartridge Dust Collector

Learn more about other
Trion industrial products
by contacting your local
Trion representative or by
visiting us on the web at
www.TRIONINC.com



Mini M.E. Mist Collector

TRION
Air Purification Systems

Trion®

101 McNeill Road | Sanford, NC 27330

P: 800.884.0002 | F: 800.458.2379 | www.trioninc.com | customerservice@trioninc.com